

GWN78xx Switch Firmware Release Notes

IMPORTANT UPGRADING NOTE

1. Please be aware: once upgraded the firmware to version 1.0.15.x, downgrade to 1.0.13.x and previous version is not allowed.
2. Combined all GWN78xx switches model firmware release together since 1.0.13.6. For 1.0.9.15 and previous firmware release notes, please visit:
<https://www.grandstream.com/support/firmware>

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FIRMWARE FILE DOWNLOAD

Individual firmware files are available for downloading at URL below:

<https://www.grandstream.com/support/firmware>

FIRMWARE VERSION 1.0.17.6 (GWN7806(P) Only)

PRODUCT NAME

GWN7806(P)

DATE

06/2/2026

FIRMWARE FILE INFORMATION

- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: 6ac976904645b262af890c48e15e868d

CHANGES/ENHANCEMENT

- Increased the maximum supported number of multicast to 512.
- Fixed internal bugs.

FIRMWARE VERSION 1.0.17.5 (GWN7806(P) Only)

PRODUCT NAME

GWN7806(P)

DATE

04/15/2026

FIRMWARE FILE INFORMATION

- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: a525ca8288046af45e1addec7613b276

CHANGES/ENHANCEMENT

- Added support for 2.5Gbps SFP+ modules [SFP+ supports 2.5Gbps]
- Added queue packet loss statistics under Port Statistics [**Queue packet loss statistics**]
- Added support for more Grandstream OUI for Voice VLAN [More Grandstream OUI for Voice VLAN]
- Added MAC Address Hashing Algorithm for MAC Address [MAC Address Hashing Algorithm]
- Added MAC address migration record [MAC address migration record]
- Added CoS for management IP interface [CoS for management IP interface]
- Optimized address pool settings of DHCP server [Optimize address pool settings of DHCP server]
- Optimized ARP/NDP [Optimize ARP/NDP]
- Added Policy Route function [Policy Route]
- Added user-customized static route specification [User-customized static route specification]
- Added MLD Matching Domain under MLD Snooping [MLD Matching Domain under MLD Snooping]
- Optimized port security function
- Optimized Port Isolation function [Optimize Port Isolation function]
- Optimized ACL advanced statistics settings [ACL advanced statistics settings]
- Added ACL utilization in CLI [ACL advanced statistics settings]
- Support drop packets when rate is non-0 and counter dropped packets [Support drop packets when rate is non-0 and counter dropped packets.]
- Optimized Identity Authentication Management [Optimize Identity Authentication Management]
- Added ND Snooping [ND Snooping]
- Added auto backup function [Auto Backup]
- Added support to use one configuration file when device reboots
- Added capture function for GWN7806 PH/PL Pro only [Capture function]
- Optimized management platform connection diagnostics [Optimized management platform connection diagnostics]
- Added sFlow function [sFlow function]

- Optimized SNMP function [Optimize SNMP function]
- Added more alert [Added more alert]
- Added port configuration for Telnet [Port configuration for Telnet]
- Added SSH public key for users [SSH public key for users]
- Support passwordless remote access for GDMS Networking and GWN Manager [Support passwordless remote access for GDMS Networking and GWN Manager]
- Added more features with Stack [Add more features with stack.]
- Added Stack settings for Stacking members [Add stack settings for stacking members.]
- Increased the limit of "Max Number of Allowed MAC Addresses" to 2000.
- Added filtering option (pip) in CLI.
- Fixed an issue that Auto Voice VLAN fails after provisioning voice VLAN through GWN Cloud.
- Fixed an issue that Incorrect Timezone Offset When Syncing Time from GDMS Cloud.
- Fixed internal bugs.


NEW FEATURE OVERVIEW

SFP+ supports 2.5Gbps

To use SFP+ 2.5Gbps, first set SFP+ speed mode to 2.5Gbps/10Gbps, reboot the device, then configure the speed of SFP+ to 2.5Gbps.

Port Basic Settings

Port Basic Settings Port Group SFP+ Speed Mode

 The speed mode will take effect after saving and rebooting the device.

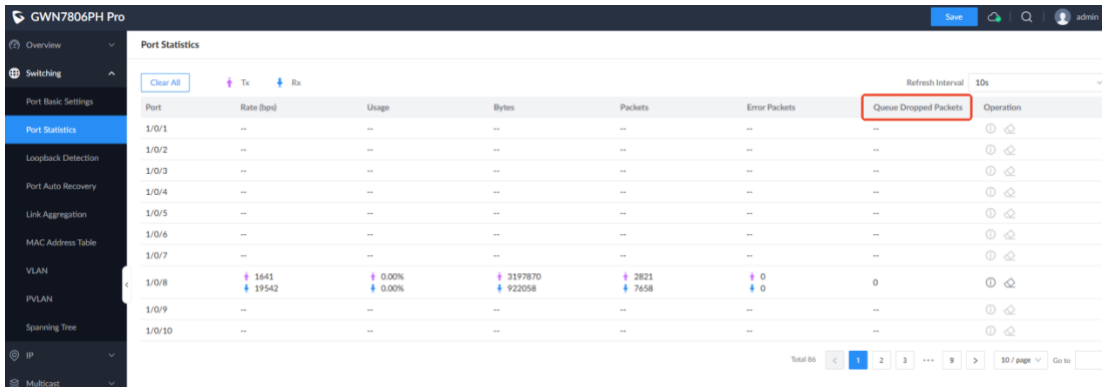
Port	Speed Mode
1/0/49-1/0/50	<input checked="" type="radio"/> 100Mbps/1000Mbps/10Gbps <input type="radio"/> 2.5Gbps/10Gbps
1/0/51-1/0/52	<input type="radio"/> 100Mbps/1000Mbps/10Gbps <input checked="" type="radio"/> 2.5Gbps/10Gbps
1/0/53-1/0/54	<input checked="" type="radio"/> 100Mbps/1000Mbps/10Gbps <input type="radio"/> 2.5Gbps/10Gbps

Cancel **OK**

Port Basic Settings > Edit Port

Port	<input type="text" value="1/0/51"/>	
Port Type	<input type="text" value="SFP+"/>	
Description	<input type="text"/>	0-128 characters allowed, including digits, letters and special characters except '\?/,'
Port Enable	<input checked="" type="radio"/> Enable <input type="radio"/> Disabled	
Scheduled enabled	<input type="text" value="None"/>	
Auto Detect	<input type="checkbox"/>	
Speed	<input type="text" value="2.5Gbps"/>	
Duplex Mode	<input checked="" type="radio"/> Full <input type="radio"/> Half	
Jumbo Frame	<input type="text" value="9216"/>	Valid range is 1518-12288
Flow Control	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled	Flow Control setting will not take effect if Duplex Mode is set to "Half".
<input type="button" value="Cancel"/> <input type="button" value="OK"/>		

Queue packet loss statistics



The screenshot shows the 'Port Statistics' page for GWN7806PH Pro. The 'Queue Dropped Packets' column is highlighted with a red box. The table below shows the data for various ports.

Port	Rate (bps)	Usage	Bytes	Packets	Error Packets	Queue Dropped Packets	Operation
1/0/1	--	--	--	--	--	--	🔄 🗑️
1/0/2	--	--	--	--	--	--	🔄 🗑️
1/0/3	--	--	--	--	--	--	🔄 🗑️
1/0/4	--	--	--	--	--	--	🔄 🗑️
1/0/5	--	--	--	--	--	--	🔄 🗑️
1/0/6	--	--	--	--	--	--	🔄 🗑️
1/0/7	--	--	--	--	--	--	🔄 🗑️
1/0/8	↑ 1641 ↓ 19542	↑ 0.00% ↓ 0.00%	↑ 3197870 ↓ 922058	↑ 2821 ↓ 7658	↑ 0 ↓ 0	0	🔄 🗑️
1/0/9	--	--	--	--	--	--	🔄 🗑️
1/0/10	--	--	--	--	--	--	🔄 🗑️

Port Statistics

Clear All Tx Rx Refresh Interval 10s

Port	Rate (bps)	Queue	Dropped Packets	Operation
1/0/1	--	--	--	🔄
1/0/2	--	--	--	🔄
1/0/3	--	--	--	🔄
1/0/4	--	--	--	🔄
1/0/5	--	--	--	🔄
1/0/6	--	--	--	🔄
1/0/7	--	--	--	🔄
1/0/8	↑ 132052 ↓ 89094	TX_egressQueue0DropSentPktsRT	0	🔄
1/0/9	--	TX_egressQueue1DropSentPktsRT	0	🔄
1/0/10	--	TX_egressQueue2DropSentPktsRT	0	🔄

Port: 1/0/8

TX_egressQueue2SentPktsRT	0
TX_egressQueue3SentPktsRT	0
TX_egressQueue4SentPktsRT	0
TX_egressQueue5SentPktsRT	0
TX_egressQueue6SentPktsRT	18
TX_egressQueue7SentPktsRT	3504
TX_egressQueue0DropSentPktsRT	0
TX_egressQueue1DropSentPktsRT	0
TX_egressQueue2DropSentPktsRT	0
TX_egressQueue3DropSentPktsRT	0
TX_egressQueue4DropSentPktsRT	0
TX_egressQueue5DropSentPktsRT	0
TX_egressQueue6DropSentPktsRT	0
TX_egressQueue7DropSentPktsRT	0

Total 86 1 2 3 ... 9 10 / page Go to

More Grandstream OUI for Voice VLAN

GWN7801P Pro Save 🔍 admin

VLAN VLAN Port Settings Port Members Voice VLAN **OUI** MAC VLAN Protocol VLAN

Add Delete

OUI Address	Mask	Description	Operation
00:08:82:00:00:00	FF:FF:FF:00:00:00	Grandstream	🗑️
C0:74:AD:00:00:00	FF:FF:FF:00:00:00	Grandstream	🗑️
EC:74:D7:00:00:00	FF:FF:FF:00:00:00	Grandstream	🗑️
14:4C:FF:00:00:00	FF:FF:FF:00:00:00	Grandstream	🗑️
00:ED:8B:00:00:00	FF:FF:FF:00:00:00	3COM	🗑️
00:03:48:00:00:00	FF:FF:FF:00:00:00	Cisco	🗑️
00:ED:75:00:00:00	FF:FF:FF:00:00:00	Vertel	🗑️
00:00:1E:00:00:00	FF:FF:FF:00:00:00	Pingtel	🗑️
00:01:E3:00:00:00	FF:FF:FF:00:00:00	Siemens	🗑️
00:60:89:00:00:00	FF:FF:FF:00:00:00	NEC_Philips	🗑️
00:0F:E2:00:00:00	FF:FF:FF:00:00:00	H3C	🗑️
00:09:6E:00:00:00	FF:FF:FF:00:00:00	Avaya	🗑️
00:04:F2:00:00:00	FF:FF:FF:00:00:00	Polycorn	🗑️
64:16:7F:00:00:00	FF:FF:FF:00:00:00	Polycorn	🗑️
00:8B:83:00:00:00	FF:FF:FF:00:00:00	Cisco	🗑️

MAC Address Hashing Algorithm

MAC Address Table

Dynamic Addresses Static MAC Addresses Blockhole Addresses Port Secure Addresses MAC Address Migration Record

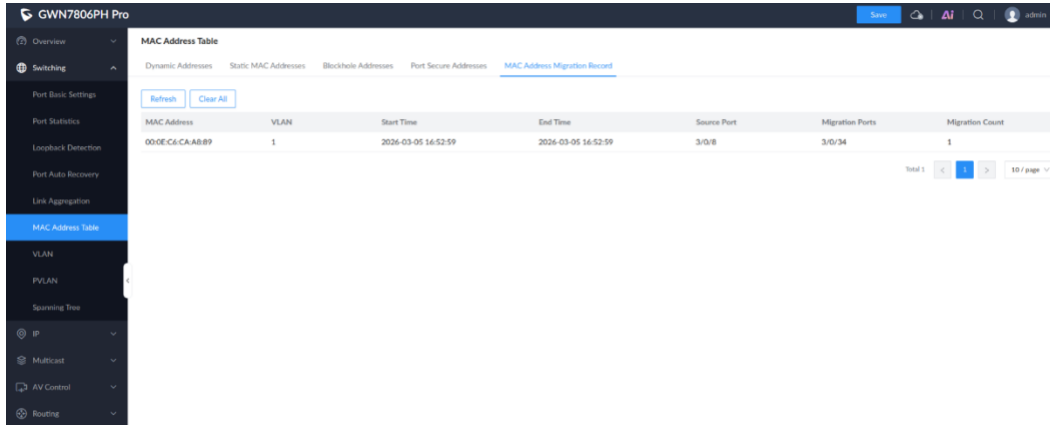
• Aging Time (s) Valid range is 0 and 60-1000000

MAC Address Hashing Algorithm **Mode 1**

Changing the mode will affect the MAC address table functionality. Please reboot the device now for the changes to take effect.

Cancel **OK**

MAC address migration record



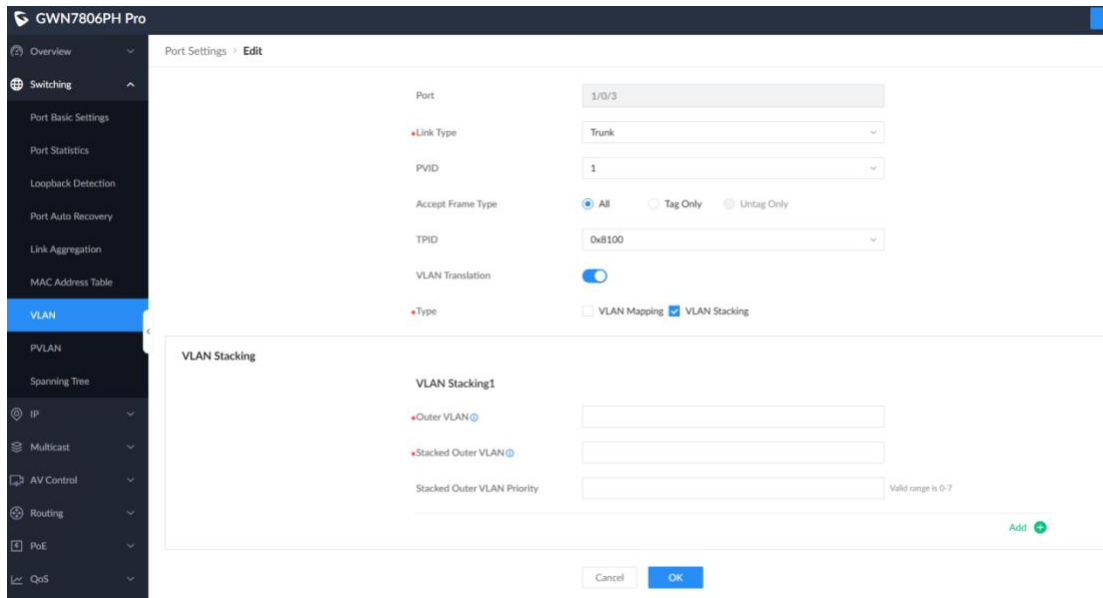
The screenshot shows the 'MAC Address Migration Record' page in the GWN7806PH Pro interface. The page includes a sidebar with navigation options like Overview, Switching, and VLAN. The main content area displays a table with the following data:

MAC Address	VLAN	Start Time	End Time	Source Port	Migration Ports	Migration Count
000E:C6:CA:A8:B9	1	2026-03-05 16:52:59	2026-03-05 16:52:59	3/0/8	3/0/34	1

At the bottom right of the table, there is a summary: 'Total 1' and a pagination control showing '1 / 10 page'.

VLAN Stacking function

The primary function of VLAN Stacking is to encapsulate the user's private VLAN tag within the public VLAN tag of the carrier's network during transmission. This solution addresses two critical issues: first, it expands the number of available VLANs, surpassing the limit of 4096; and second, it establishes Layer 2 isolation for user traffic, ensuring that traffic originating from different users remains isolated within the carrier's network while still enabling transmission across various geographic locations.



The screenshot shows the 'Port Settings - Edit' page in the GWN7806PH Pro interface. The 'VLAN Stacking' section is expanded, showing the following configuration options:

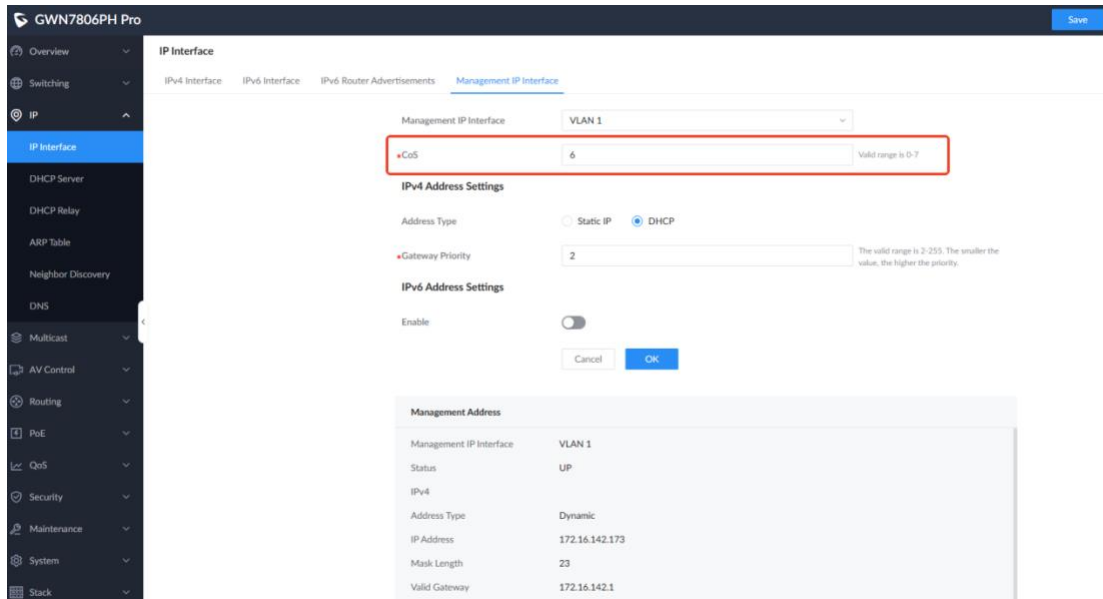
- Port: 1/0/3
- Link Type: Trunk
- PVID: 1
- Accept Frame Type: All Tag Only Untag Only
- TPID: 0x8100
- VLAN Translation:
- Type: VLAN Mapping VLAN Stacking

The 'VLAN Stacking' section includes the following fields:

- VLAN Stacking1
- Outer VLAN:
- Stacked Outer VLAN:
- Stacked Outer VLAN Priority: (Valid range is 0-7)

Buttons for 'Cancel' and 'OK' are located at the bottom of the configuration area.

CoS for management IP interface



GWN7806PH Pro Save

IP Interface

Management IP Interface: VLAN 1

•CoS: 6 Valid range is 0-7

IPv4 Address Settings

Address Type: Static IP DHCP

•Gateway Priority: 2 The valid range is 2-255. The smaller the value, the higher the priority.

IPv6 Address Settings

Enable:

Cancel OK

Management Address

Management IP Interface	VLAN 1
Status	UP
IPv4	
Address Type	Dynamic
IP Address	172.16.142.173
Mask Length	23
Valid Gateway	172.16.142.1

Optimize address pool settings of DHCP server

- Implement support for enabling and disabling DHCP for each address pool.
- Add a gateway for the global address pool.
- Optimize DHCP option settings.

DHCP Server > Add Address Pool

•Address Pool Name: 1-64 characters allowed, including digits, letters and special characters except "/",

Enable:

Type: Global Interface

•IP Pool Subnet:

•Mask Length: Valid range is 8-30

•Gateway: Add +

•Duration (min): 120 Valid range is 1-11520

DNS Server: Add +

WINS Server: Add +


Netbios Node Type:

DHCP Option1

DHCP Option: The range is 2-254 (excluding 50-54, 56, 58, 59, 61 and 82)

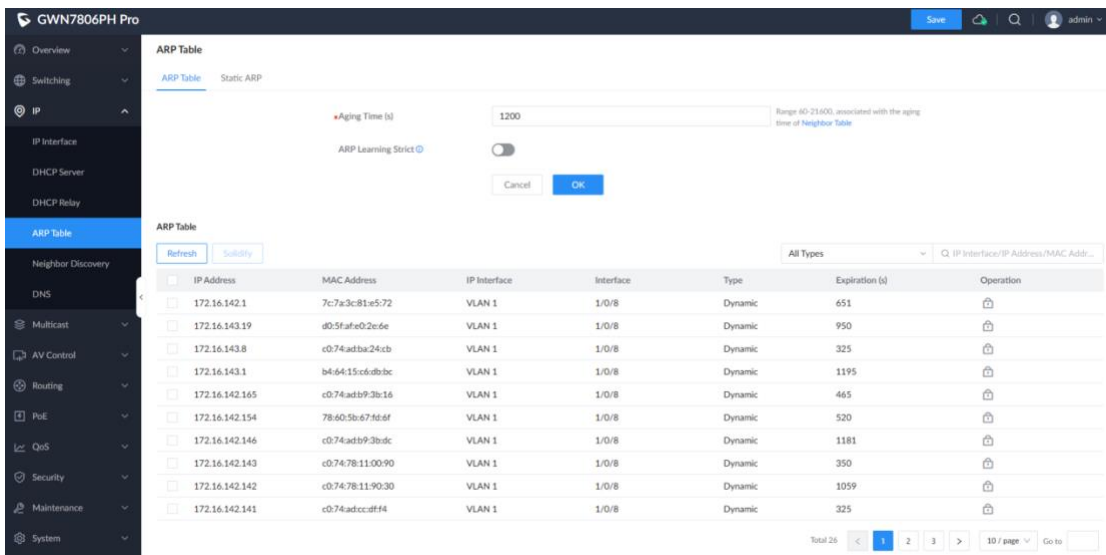
Type: ^

Option Content: 0-256 characters, and must be even

[Add](#) 

Optimize ARP/NDP

Divided into a configuration table and an effective table.

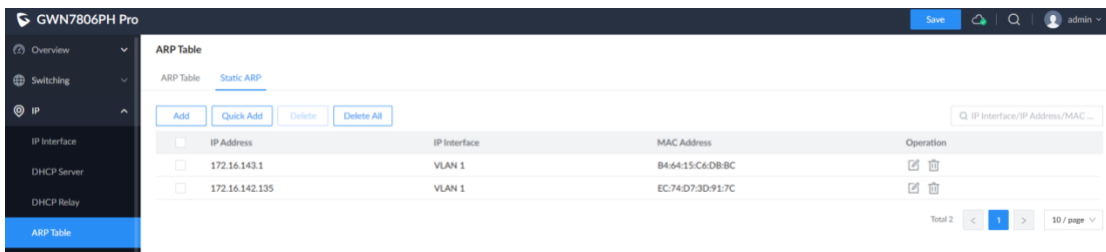


ARP Table

ARP Learning Strict:

ARP Aging Time (s): Range: 40-21400, associated with the aging time of Neighbor Table

IP Address	MAC Address	IP Interface	Interface	Type	Expiration (s)	Operation
172.16.142.1	7c7a3c81e572	VLAN 1	1/0/8	Dynamic	651	
172.16.143.19	d05fafe02e6e	VLAN 1	1/0/8	Dynamic	950	
172.16.143.8	c074adba24cb	VLAN 1	1/0/8	Dynamic	325	
172.16.143.1	b46415cd8bbc	VLAN 1	1/0/8	Dynamic	1195	
172.16.142.165	c074adb93b16	VLAN 1	1/0/8	Dynamic	465	
172.16.142.154	78605b67f66f	VLAN 1	1/0/8	Dynamic	520	
172.16.142.146	c074adb93bdc	VLAN 1	1/0/8	Dynamic	1181	
172.16.142.143	c07478110090	VLAN 1	1/0/8	Dynamic	350	
172.16.142.142	c07478119030	VLAN 1	1/0/8	Dynamic	1059	
172.16.142.141	c074adccdf44	VLAN 1	1/0/8	Dynamic	325	



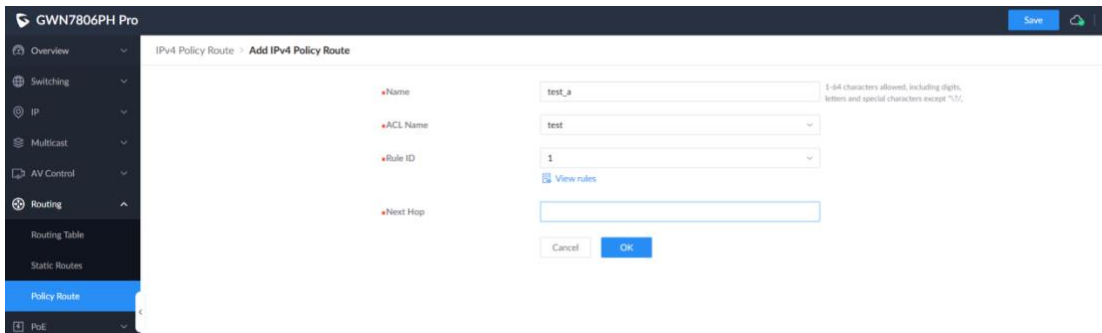
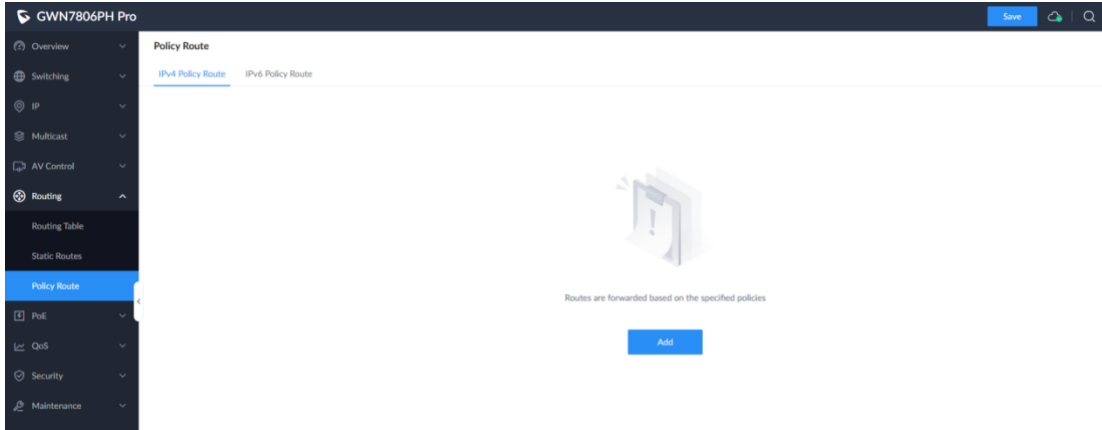
Static ARP

[Add](#) [Quick Add](#) [Delete](#) [Delete All](#)

IP Address	IP Interface	MAC Address	Operation
172.16.143.1	VLAN 1	B46415C6DB8C	
172.16.142.135	VLAN 1	EC74D73D917C	

Policy Route

Routing forwarding according to user-defined policies.



Policy Route

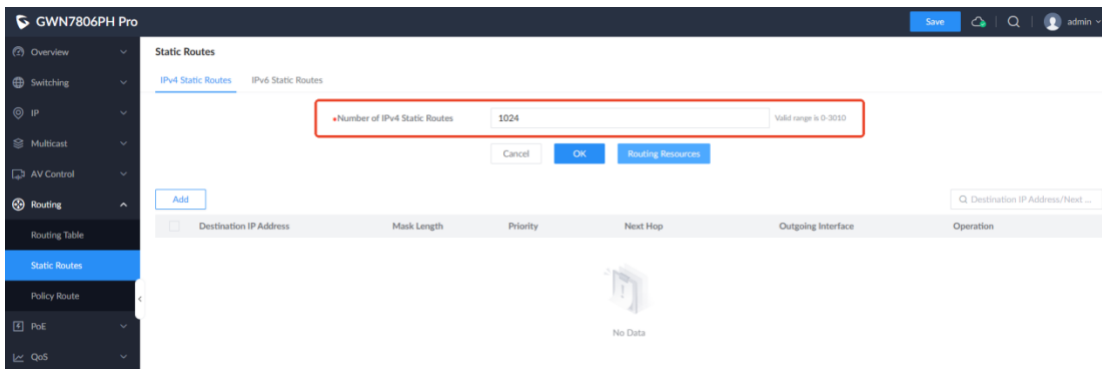
IPv4 Policy Route | IPv6 Policy Route

[Add](#) [Delete](#)

Name	Status	ACL Name	Rule ID	Next Hop	Operation
test_a	Disabled	test	1	172.16.142.34	Edit Delete

Total 1 | < 1 > | 10 / page

User-customized static route specification



Static Routes

IPv4 Static Routes IPv6 Static Routes

Add

Destination IP Address

Routing Resources

Unicast routing statistics information distribution:

Routing-Name	Attribute	IPv4	IPv6	Multiple
Hardware	Read-Only	2562	2563	0
Default	Read-Only	1	1	0
Direct	Read-Only	32/0	33/0	0/0
Static	Read-Write	0	0	0

Summary:
 IPv4 Current Direct Routing 1, IPv6 Current Direct Routing 1.
 IPv4 left Static Routing 1024, IPv6 left Static Routing 1024, Multiple 0.
 Dynamically adjust the maximum value : IPv4 Unicast Routing 3010, IPv6 Unicast Routing 3010, Multiple 0.

Codes: Attribute
 Read-Only: This type of route cannot be modified.
 Read-Write: This type of routing can modify the specification size.

Codes: Multiple
 = 0: Indicates independent dependency relationship between IPv4 and IPv6 routing entries.

MLD Matching Domain under MLD Snooping

GWN7801P Pro

MLD Snooping

Global Settings Querier Router Port Multicast Address Multicast Policy Multicast Port

MLD Snooping

Matching Domain FF:XX:::XX:XX:::XX:XX::

Unknown Multicast Packet Drop This option is associated with the same setting under IGMP Snooping.

Multicast Forward Mode MAC-Based IP-Based

MLD Version MLDv1 MLDv2

Report Suppression

Cancel OK

Optimize Port Isolation function

Support multiple isolation groups.

Support unidirectional isolation and bidirectional isolation,

- Unidirectional isolation: The isolation group interface stops sending data to the unidirectionally isolated interface.
- Bidirectional isolation: Neither interface sends data to the other.

Port Isolation

Isolation Mode

- Layer 2 isolated, Layer 3 communication
- Both Layer 2 and Layer 3 are isolated

Cancel OK

Isolation Group

Unidirectional isolation: The isolation group interface stops sending data to the unidirectionally isolated interface. Bidirectional isolation: Neither interface sends data to the other.

Clear Configuration

Interface	Bidirectional Isolation	Unidirectional Isolation	Operation
<input type="checkbox"/> 1/0/1	--	--	☑ ☒
<input type="checkbox"/> 1/0/2	--	--	☑ ☒
<input type="checkbox"/> 1/0/3	--	--	☑ ☒
<input type="checkbox"/> 1/0/4	--	--	☑ ☒
<input type="checkbox"/> 1/0/5	--	--	☑ ☒
<input type="checkbox"/> 1/0/6	--	--	☑ ☒
<input type="checkbox"/> 1/0/7	--	--	☑ ☒
<input type="checkbox"/> 1/0/8	--	--	☑ ☒
<input type="checkbox"/> 1/0/9	--	--	☑ ☒
<input type="checkbox"/> 1/0/10	--	--	☑ ☒

Total 86 < 1 2 3 ... 9 > 10 / page Go to

Port Isolation Edit Isolation Group

Port 1/0/4

Bidirectional Isolation
Click on port to select/unselect

Port

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49

LAG

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31

Unidirectional Isolation
Click on port to select/unselect

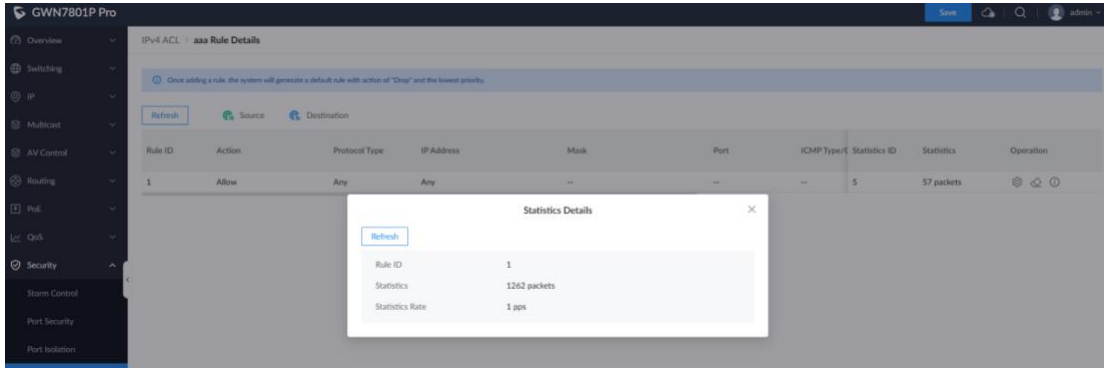
Port

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

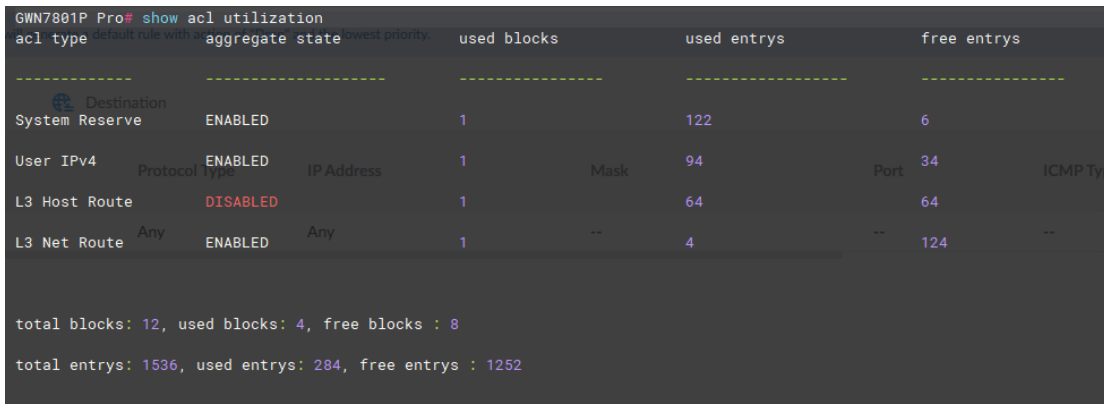
Cancel OK

ACL advanced statistics settings

Added ACL statistics rate, and support refresh.

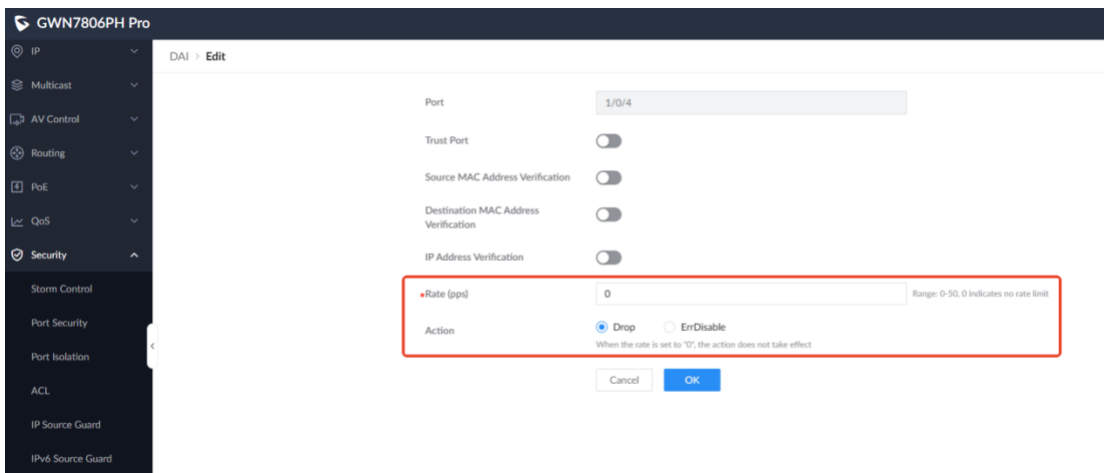


Add ACL utilization in CLI.



Support drop packets when rate is non-0 and counter dropped packets.

When port rate is set to 0, support drop packets or errdisable port. And, add rate-limited dropped packets statistics under Statistics.



GWN7806PH Pro

DAI

Clear Refresh

Port	Destination MAC Address Verification Failures	Source IP Address Verification Failures	Destination IP Address Verification Failures	IP-MAC Verification Failures	Rate-limited Dropped Packets	Operation
<input type="checkbox"/> 1/0/1	0	0	0	0	0	
<input type="checkbox"/> 1/0/2	0	0	0	0	0	
<input type="checkbox"/> 1/0/3	0	0	0	0	0	
<input type="checkbox"/> 1/0/4	0	0	0	0	0	
<input type="checkbox"/> 1/0/5	0	0	0	0	0	
<input type="checkbox"/> 1/0/6	0	0	0	0	0	
<input type="checkbox"/> 1/0/7	0	0	0	0	0	
<input type="checkbox"/> 1/0/8	0	0	0	0	0	
<input type="checkbox"/> 1/0/9	0	0	0	0	0	
<input type="checkbox"/> 1/0/10	0	0	0	0	0	

Total 10 / page

Optimize Identity Authentication Management

Added import/export local user of MAC-based.

Identity Authentication Management

Port Mode Port Authentication Sessions Local User of MAC-based

Add Delete Delete All Import Export

MAC Address	Name	Port Control	VLAN	Reauthentication Time (s)	Inactive Time (s)	Operation
<input type="checkbox"/> 00:08:82:12:23:45	Wednesday	Force authentication	--	--	--	

Total 1

Import

Upload CSV File

Select file to upload

[Reference Template](#)

Cancel OK

Added name description for local user of MAC-based.

Identity Authentication Management

Port Mode Port Authentication Sessions Local User of MAC-based

Add Delete Delete All Import Export

MAC Address	Name	Port Control	VLAN	Reauthentication Time (s)	Inactive Time (s)	Operation
<input type="checkbox"/> 00:08:82:12:23:45	Wednesday	Force authentication	--	--	--	

Add Local User of MAC-based

The MAC address of local user must be a unicast one.

MAC Address
00 : 08 : 82 : 23 : 45 : 67

Name
0-32 characters allowed, including digits, letters and special characters except "\/?:
Emily

Port Control
 Force authentication Force unauthentication

VLAN
Valid range is 1-4094

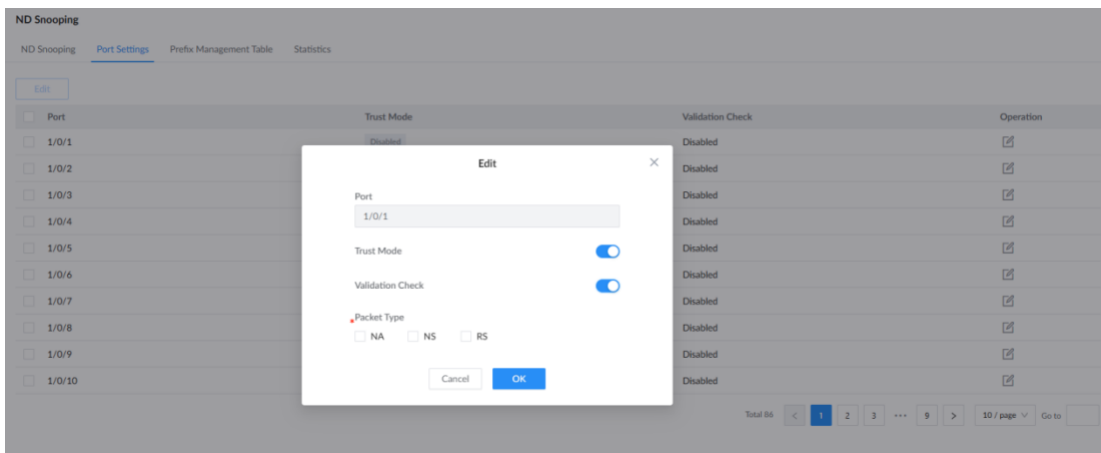
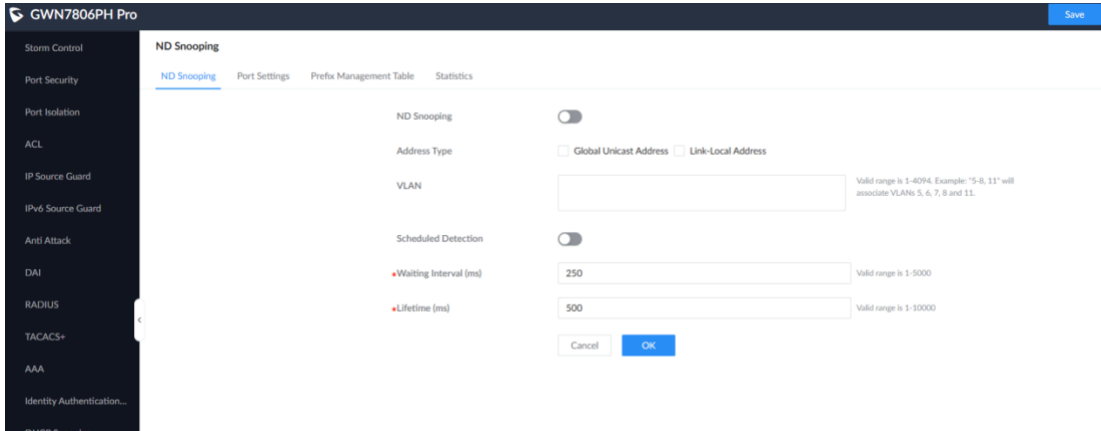
Reauthentication Time (s)
Valid range is 300-2147483647

Inactive Time (s)
Valid range is 60-65535

Cancel OK

ND Snooping

The Network Address Translation (NAT) Snooping function serves as a security mechanism that establishes a legitimate mapping of IPv6 addresses and ports. By collaborating with features such as NAT Inspection and IPv6 Source Guard, it ensures the authenticity of packets, thereby mitigating potential attacks associated with the Network Address Translation (NAT) protocol, including address spoofing and gateway impersonation.



ND Snooping

ND Snooping Port Settings Prefix Management Table Statistics

Refresh Add **Solidify** Delete

IPv6 Address/Prefix Length	VLAN	Type	Lease Time (s)	Operation
<div style="border: 1px solid #ccc; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: center;">Add ✕</p> <p>IPv6 Address</p> <input type="text"/> <p>Prefix Length Valid range is 1-128</p> <input type="text"/> <p>VLAN Valid range is 1-4094</p> <input type="text"/> <p style="text-align: center;"> <input type="button" value="Cancel"/> <input type="button" value="OK"/> </p> </div>				

ND Snooping

ND Snooping Port Settings Prefix Management Table Statistics

Clear Refresh

Port	Total Rx Packets	NS Packets	NA Packets	RS Packets	RA Packets	Other Packets	Tx Packets	Dropped Packets	Operation
<input type="checkbox"/> 1/0/1	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/2	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/3	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/4	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/5	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/6	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/7	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/8	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/9	0	0	0	0	0	0	0	0	
<input type="checkbox"/> 1/0/10	0	0	0	0	0	0	0	0	

Total 86 < 1 2 3 ... 9 > 10 / page Go to

Auto Backup

Added auto backup function. Select the backup time, and the switch will automatically back the running configuration file.

GWN7806PH Pro

Backup & Restore

Factory Reset

After factory reset, all settings on the switch will be restored to factory default. It is recommended to back up the current configuration before factory resetting.

Restore Configuration

Switch configuration can be restored by importing a configuration file. If restoration fails, a hard reset to factory settings may be necessary. To hard reset, hold down the RESET button on the front of switch for five seconds and let go.

Backups

Name	Date	Size	Restore Configuration
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260306094604_Upgrade.cfg	2026/03/06_09:46:04	3.7KB	<input type="checkbox"/>
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260305192247_Upgrade.cfg	2026/03/05_19:22:47	3.61KB	<input type="checkbox"/>
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260305181704_Upgrade.cfg	2026/03/05_18:17:04	3.61KB	<input type="checkbox"/>
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260305180355_Upgrade.cfg	2026/03/05_18:03:55	3.62KB	<input type="checkbox"/>
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260305174639_Upgrade.cfg	2026/03/05_17:46:39	3.55KB	<input type="checkbox"/>
GWN7806PH_Pro_EC74D7A8CD94_1-3-4-01_20260305164657_Upgrade.cfg	2026/03/05_16:46:57	3.58KB	<input type="checkbox"/>

Backup & Restore > **Scheduled Backup**

Scheduled Backup



Backup Time

Sunday Morning_10:00

Cancel

OK

Support selects one configuration file to use when device reboots.

Backups

[Back Up Running Configurations](#)
[Back Up Saved Configurations](#)
[Import](#)
[Scheduled Backup \(OFF\)](#)

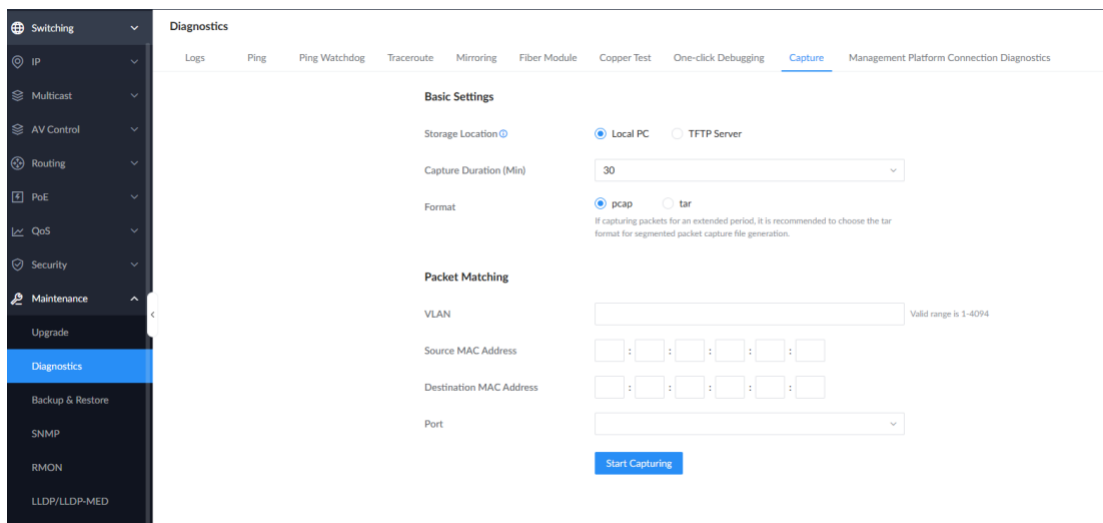
Name	Date	Size	Restore Configuration on Reboot	Operation
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305192247_Upgrade.cfg	2026/03/05_19:22:47	3.61KB	<input checked="" type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260306094604_Upgrade.cfg	2026/03/06_09:46:04	3.7KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305181704_Upgrade.cfg	2026/03/05_18:17:04	3.61KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305180355_Upgrade.cfg	2026/03/05_18:03:55	3.62KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305174639_Upgrade.cfg	2026/03/05_17:46:39	3.55KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305164657_Upgrade.cfg	2026/03/05_16:46:57	3.58KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-4-01_20260305151205_Upgrade.cfg	2026/03/05_15:12:05	3.5KB	<input type="checkbox"/>	↓ ↻ 🗑
GWN7806PH_Pro_EC74D7A8C094_1-3-3-01_20260304160604_Upgrade.cfg	2026/03/04_16:06:04	3.3KB	<input type="checkbox"/>	↓ ↻ 🗑

Capture function (GWN7806 PH/PL Pro Only)

This feature is only supported in GWN7806 PH/PL Pro.

Select local PC and TFTP server to save capture file.

By setting the capture time, the switch can automatically capture matching packets within the specified time.



The screenshot shows the 'Diagnostics' section with the 'Capture' tab selected. The 'Basic Settings' section includes:

- Storage Location:** Local PC (selected) or TFTP Server
- Capture Duration (Min):** 30
- Format:** pcap (selected) or tar

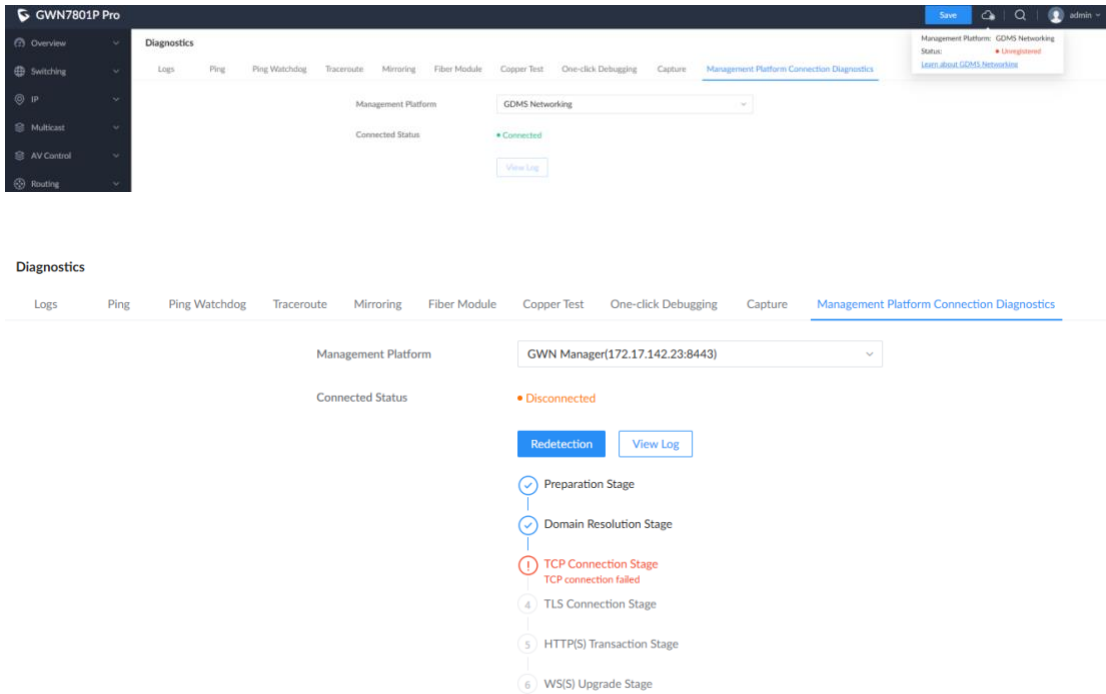
The 'Packet Matching' section includes:

- VLAN:** (empty field, valid range is 1-4094)
- Source MAC Address:** (empty field)
- Destination MAC Address:** (empty field)
- Port:** (empty dropdown menu)

A 'Start Capturing' button is located at the bottom of the configuration area.

Optimized management platform connection diagnostics

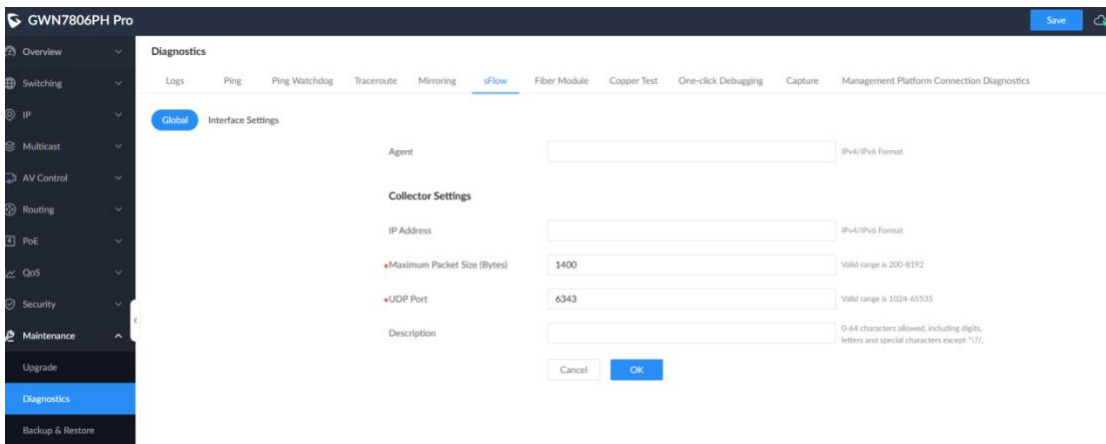
Display all link connection status, including GDMS Networking, GWN Manager and GWN routers.



sFlow function (For GWN7806 PH/PL Pro Only)

This feature is only supported in GWN7806 PH/PL Pro.

sFlow function is a network monitoring technology that encapsulates traffic monitoring information into data messages through random sampling and application-layer data extraction, and sends them to a central analyzer in real-time, thereby providing complete visualization and performance analysis of the entire network traffic.



Diagnostics

 Logs Ping Ping Watchdog Traceroute Mirroring **sFlow** Fiber Module Copper Test One-click Debugging Capture Management Platform Connection Diagnostics

 Global **Interface Settings**

Edit

Port	Flow Sampling			Counter Sampling		Operation	
	Status	Sampling Direction	Maximum Packet Size (Bytes)	Sampling Rate	Sampling Interval (s)		
<input type="checkbox"/> 1/0/1	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/2	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/3	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/4	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/5	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/6	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/7	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/8	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/9	Disabled	--	--	--	Disabled	--	
<input type="checkbox"/> 1/0/10	Disabled	--	--	--	Disabled	--	

Total 54 < 1 2 3 ... 6 > 30 / page Go to

 Interface Settings > **Edit Port**

Port: 1/0/1

Flow Sampling:

Sampling Direction: Ingress & Egress Ingress Egress

•Maximum Packet Size (Bytes): 128 Valid range is 128-256

•Sampling Rate: 400 Valid range is 256-65535

Counter Sampling:

•Sampling Interval (s): 30 Valid range is 2-3600

Cancel OK

Optimize SNMP function

Support configure SNMP version when SNMP feature is enabled.

SNMP

Global Settings View Management Group Management Community Management User Management Notification Management Trap Event

SNMP:

•SNMP Version: SNMPv1/SNMPv2c SNMPv3

•Local Engine ID: 8000a59d ec74d7a8c094 2-56 characters. Value must be an even number and in hexadecimal format.

Reset

Cancel OK

Remote Engine ID

Support grouped settings for type and OID subtree, and also support setting multiple groups.

View Management > Add View

•View 1-32 characters allowed, including digits, letters and special characters except ^,/,

•Type & OID Subtree

Type: | OID Subtree: +

Cancel OK Add +

Add AES for encryption mode under User Management.

User Management > Add User

•User 1-32 characters allowed, including digits, letters and special characters except ^,/,

•Group

Security Level: AuthPri

Authentication Mode: MD5 SHA

•Authentication Password 8-32 characters allowed, including digits, letters and special characters except ^,/,

Encryption Mode: DES AES

•Encryption Password 8-32 characters allowed, including digits, letters and special characters except ^,/,

Cancel OK

Support more Trap information.

SNMP

Global Settings | View Management | Group Management | Community Management | **User Management** | Notification Management | Trap Event

- STP Bridge
- CPU
- Monitor**
- Port ErrDisable
- MAC Address Notification
- Port Security
- PoE Power Supply
- Logs
- VLAN Creation
- VLAN Deletion
- Configuration Distribution
- ARP Notification**
- Fiber Module Alert**

Cancel OK

Alert

 Alert Settings Fiber Module Alert Statistics Scheduled Notification

 Device Uptime

Report Interval (s)

Valid range is 1-86400

Added more alert

Add ARP alert.

Alert
Alert Settings Fiber Module Alert Statistics Scheduled Notification

Type	Alert Status	Log Level	Alert Threshold	Alert Waiting Time (s)	Restore Threshold	Restore Waiting Time (s)
CPU Usage	<input checked="" type="checkbox"/>	Error	80 %	30	80 %	10
Memory Usage	<input checked="" type="checkbox"/>	Error	80 %	30	80 %	10
PoE Power	<input checked="" type="checkbox"/>	Error	80 %	30	80 %	10
Mac Address Exceeds Limit	<input checked="" type="checkbox"/>	Error	80 %	30	80 %	10
Temperature	<input checked="" type="checkbox"/>	Error	75 °C	30	75 °C	10
Fan Malfunction	<input checked="" type="checkbox"/>	Error	--	30	--	10
PoE Chip Malfunction	<input checked="" type="checkbox"/>	Error	--	30	--	10
Power Supply Malfunction	<input checked="" type="checkbox"/>	Error	--	30	--	10
ARP Limit Exceeded	<input checked="" type="checkbox"/>	Error	80 %	30	80 %	10

Alert

 Alert Settings Fiber Module Alert Statistics Scheduled Notification

Type	Current Status	Last Alert Time	Last Alert Actual Value	Last Restore Time	Last restore Actual Value	Alert Times
CPU Usage	normal	1970-01-01 08:00:00	0%	1970-01-01 08:00:00	0%	0
Memory Usage	normal	1970-01-01 08:00:00	0%	1970-01-01 08:00:00	0%	0
PoE Power	normal	1970-01-01 08:00:00	0%	1970-01-01 08:00:00	0%	0
Mac Address Exceeds Limit	normal	1970-01-01 08:00:00	0%	1970-01-01 08:00:00	0%	0
Temperature	normal	1970-01-01 08:00:00	0°C	1970-01-01 08:00:00	0°C	0
Fan Malfunction	normal	1970-01-01 08:00:00	--	1970-01-01 08:00:00	--	0
PoE Chip Malfunction	normal	1970-01-01 08:00:00	--	1970-01-01 08:00:00	--	0
Power Supply Malfunction	normal	1970-01-01 08:00:00	--	1970-01-01 08:00:00	--	0
ARP Limit Exceeded	normal	1970-01-01 08:00:00	0%	1970-01-01 08:00:00	0%	0

Add fiber module alert.

Alert

 Alert Settings | Fiber Module Alert | Statistics | Scheduled Notification

Port	High Temperature Alert	Low Temperature Alert	Overvoltage Alert	Undervoltage Alert	High Tx Power Alert	Low Tx Power Alert	High Rx Power Alert	Low Rx Power Alert	Operation
<input type="checkbox"/> 1/0/49	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>
<input type="checkbox"/> 1/0/50	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>
<input type="checkbox"/> 1/0/51	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>
<input type="checkbox"/> 1/0/52	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>
<input type="checkbox"/> 1/0/53	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>
<input type="checkbox"/> 1/0/54	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	<input type="checkbox"/>

 Fiber Module Alert > [Edit Port](#)

Port:

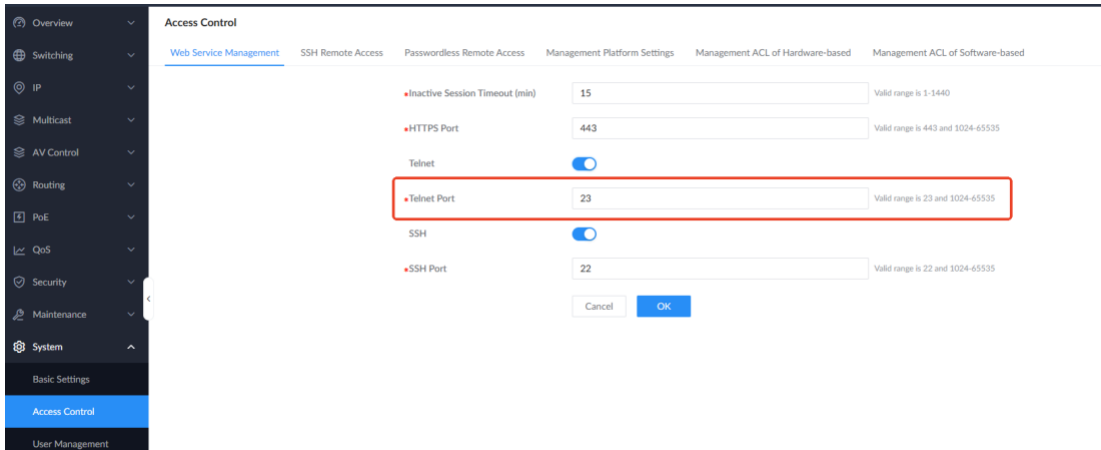
Type	Alert Status	Log Level	Alert Difference	Alert Waiting Time (s)	Recovery Difference	Restore Waiting Time (s)
High Temperature Alert	<input checked="" type="checkbox"/>	Error	0 °C	30	0 °C	10
Low Temperature Alert	<input checked="" type="checkbox"/>	Error	0 °C	30	0 °C	10
Overvoltage Alert	<input checked="" type="checkbox"/>	Error	0 V	30	0 V	10
Undervoltage Alert	<input checked="" type="checkbox"/>	Error	0 V	30	0 V	10
High Tx Power Alert	<input checked="" type="checkbox"/>	Error	0 dBm	30	0 dBm	10
Low Tx Power Alert	<input checked="" type="checkbox"/>	Error	0 dBm	30	0 dBm	10
High Rx Power Alert	<input checked="" type="checkbox"/>	Error	0 dBm	30	0 dBm	10
Low Rx Power Alert	<input checked="" type="checkbox"/>	Error	0 dBm	30	0 dBm	10
High Bias Current Alert	<input checked="" type="checkbox"/>	Error	0 mA	30	0 mA	10
Low Bias Current Alert	<input checked="" type="checkbox"/>	Error	0 mA	30	0 mA	10

Alert

 Alert Settings | Fiber Module Alert | Statistics | Scheduled Notification

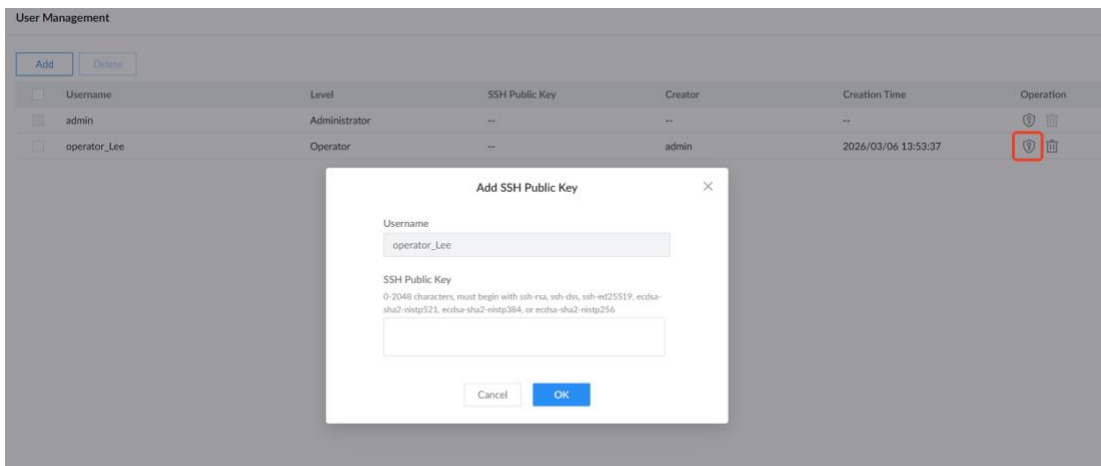
Type	Current Status	Last Alert Time	Last Alert Actual Value	Last Restore Time	Last restore Actual Value	Alert Times
High Temperature Alert	normal	1970-01-01 08:00:00	0°C	1970-01-01 08:00:00	0°C	0
Low Temperature Alert	normal	1970-01-01 08:00:00	0°C	1970-01-01 08:00:00	0°C	0
Overvoltage Alert	normal	1970-01-01 08:00:00	0V	1970-01-01 08:00:00	0V	0
Undervoltage Alert	normal	1970-01-01 08:00:00	0V	1970-01-01 08:00:00	0V	0
High Tx Power Alert	normal	1970-01-01 08:00:00	0dBm	1970-01-01 08:00:00	0dBm	0
Low Tx Power Alert	normal	1970-01-01 08:00:00	0dBm	1970-01-01 08:00:00	0dBm	0
High Rx Power Alert	normal	1970-01-01 08:00:00	0dBm	1970-01-01 08:00:00	0dBm	0
Low Rx Power Alert	normal	1970-01-01 08:00:00	0dBm	1970-01-01 08:00:00	0dBm	0
High Bias Current Alert	normal	1970-01-01 08:00:00	0mA	1970-01-01 08:00:00	0mA	0
Low Bias Current Alert	normal	1970-01-01 08:00:00	0mA	1970-01-01 08:00:00	0mA	0

Port configuration for Telnet

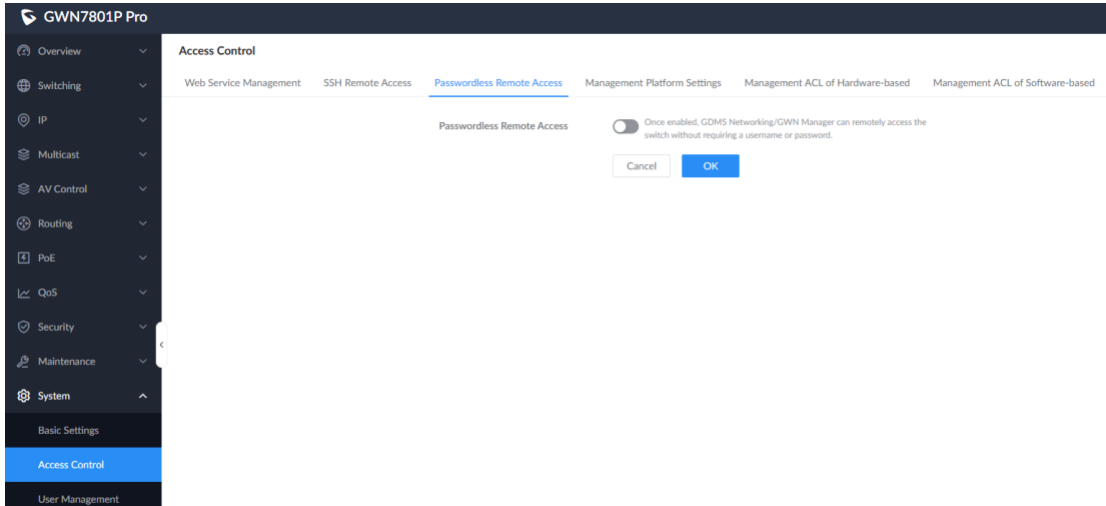


SSH public key for users

Once configured SSH public key, you can use it to sign in the switch.



Support passwordless remote access for GDMs Networking and GWN Manager



Add more features with stack.


Support more features when stacking, including multicast, SNMP, RMON, identity authentication management, and ACL.

Add stack settings for stacking members.

Once stacking is established, every member switch can be configured its stacking settings.

Stack Settings

Please ensure that the device ID is unique; otherwise, the device will not be able to join the stack. After the configuration is complete, reboot the switch for the settings to take effect. Use optical modules to cross-connect the stack ports. After connecting, power on the switches. It is recommended to power on the pre-configured primary switch first to form the stack system. Switches in a stack must run the same software version. Please upgrade them to the same version in advance.

Device ID	Device ID for Next Boot	Priority	Priority for Next Boot	Stack Port 1	Stack Port 2	Operation
1	1	1	1	--	--	

Stack Settings > [Edit](#)

Device ID

Device ID for Next Boot

Valid range is 1-4

Priority

Priority for Next Boot

The valid range is 1-255. The higher the value, the higher the priority.

Stack Port 1

Stack Port 2

FIRMWARE VERSION 1.0.15.138 (GWN7801(P),02(P),03(P) Only)

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P)

DATE

02/13/2026

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: 3eaaf9653ac79ccb232f9eb49551426b

CHANGES/ENHANCEMENT

- Fixed internal bugs.

FIRMWARE VERSION 1.0.15.137

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7821P, GWN7822P
GWN7830, GWN7831, GWN7832

DATE

02/04/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: adfaad17003927adf946225b0182d159
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: 66171bd1ae7a9bb7d3a1c8393f0cc47a
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: 8d5a82271253b975683fca88af7229a2
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: 66171bd1ae7a9bb7d3a1c8393f0cc47a
- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: 8d5a82271253b975683fca88af7229a2
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: 8d5a82271253b975683fca88af7229a2
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: 8d5a82271253b975683fca88af7229a2
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: 8d5a82271253b975683fca88af7229a2
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: 66171bd1ae7a9bb7d3a1c8393f0cc47a

CHANGES/ENHANCEMENT

- Added support to login the device via GDMS without password.
- Fixed internal bugs.

FIRMWARE VERSION 1.0.15.135

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7821P, GWN7822P
GWN7830, GWN7831, GWN7832

DATE

12/29/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: 173b0c9d7470388a32ec4c2c1e6b71a1
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: 5132b15d4c6e2145e7ef77f5598651a1
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: bd2b8520d00da4941c02d6b99e43467b
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: 5132b15d4c6e2145e7ef77f5598651a1
- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: bd2b8520d00da4941c02d6b99e43467b
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: bd2b8520d00da4941c02d6b99e43467b
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: bd2b8520d00da4941c02d6b99e43467b
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: bd2b8520d00da4941c02d6b99e43467b
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: 5132b15d4c6e2145e7ef77f5598651a1

CHANGES/ENHANCEMENT

- Fixed issue that after the primary device reboots independently, the network connectivity to downstream devices connected via LAG ports is lost
- Switch not appearing online on GDMS after upgrade to 1.0.15.126
- Fixed internal bugs.

FIRMWARE VERSION 1.0.15.132

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7821P, GWN7822P
GWN7830, GWN7831, GWN7832

DATE

9/29/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: bbe1781bb2003240a4c17721fd7863f0
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: a27f8bbdad1ecfe207bbf96b5889019b
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: 154866f7c0d238ef511c951fc6504e11
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: a27f8bbdad1ecfe207bbf96b5889019b
- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: 154866f7c0d238ef511c951fc6504e11
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: 154866f7c0d238ef511c951fc6504e11
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: 154866f7c0d238ef511c951fc6504e11
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: 154866f7c0d238ef511c951fc6504e11
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: a27f8bbdad1ecfe207bbf96b5889019b

CHANGES/ENHANCEMENT

- Added support for ignoring credentials during SSH authentication.
- Added key for “encrypted” field to configuration files for Radius and TACACS+.
- Fixed issue where MAC addresses on stack slave devices were not synchronized to the CLI after restart.
- Fixed issue causing abnormal error messages during reboot or role switching in stacking environments.
- Fixed issue where entering the stacking port view displayed an error prompt.
- Fixed internal bugs.

FIRMWARE VERSION 1.0.15.126

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7821P, GWN7822P
GWN7830, GWN7831, GWN7832

DATE

6/30/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: f84421315919f78abc2db904db18f2e4
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d
- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d

CHANGES/ENHANCEMENT

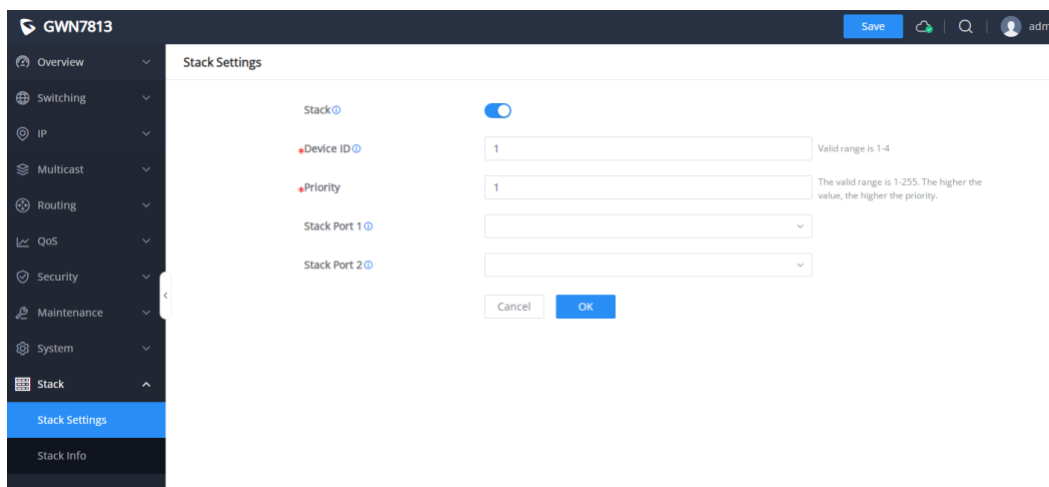
- Added support for switch stacking feature for GWN7806(P), GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P), GWN7821P, GWN7822P, GWN7830, GWN7831, GWN7832.
- Added the Ability to disable the native VLAN.
- Added support for PVLAN for models of GWN7806(P), GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P), GWN7821P, GWN7822P, GWN7830, GWN7831, GWN7832.
- Added the option to set the Web GUI language on the configuration.

- Added support to use encrypted strings in password fields in CLI.
- Added support for "Calling-Station-Id" in RADIUS Access-Request
- Optimized CPU utilization.
- Fixed issue that SNMP missed support for FDB and VLAN MIBs (BRIDGE-MIB / Q-BRIDGE-MIB).
- Fixed issue that firmware upgrade fails due to HW Model mismatch error.
- Fixed issue that IP Source Guard not working as expected on GWN78xx.
- Fixed issue that New Zealand daylight saving cannot be configured due to start time cannot after end time.
- Fixed issue that IGMP Snooping might cause Multicast flooding.
- Fixed issue that fans running non-stop even at low temperature.
- Fixed issue that GWN7803P lost 192.168.0.1 gateway after reboot.
- Improved the accuracy of upload current rate value.
- Fixed internal bugs.

NEW FEATURE OVERVIEW

- **Stacking Feature**

This feature can be enabled on Web UI Stack page. Please go to Grandstream Documentation Center check the GWN78xx Stacking Feature User Guide for more details.



Note: After the configuration is completed through the CLI or Web GUI, you need to save it first, then restart the device. The device ID and port number will take effect after the restart is completed.

FIRMWARE VERSION 1.0.13.18

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7821P, GWN7822P
GWN7830, GWN7831, GWN7832

DATE

4/28/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: ef2b2dd39f1bb75d7c57c1df54cc00e3
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc

CHANGES/ENHANCEMENT

- Optimized GWN783x CPU utilization.
- Fixed issue IGMP Snooping might cause Multicast Flooding.
- Fixed issue that the fan keeps running non-stop even the device is at low temperature.
- Fixed compatibility issue with GDMS that the Cloud configures 2.5G but local speed is Auto.
- Fixed compatibility issue with GDMS that the 2.5G port on GDMS is displayed in yellow-green instead of light blue.

[11/20/2024] FIRMWARE VERSION 1.0.13.6

PRODUCT NAME

GWN7821P, GWN7822P

DATE

11/20/2024

FIRMWARE FILE INFORMATION

- GWN7821P Firmware file name: gwn7821fw.bin
MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7822P Firmware file name: gwn7822fw.bin
MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a

This is the initial firmware version for GWN7821P/7822P.

FIRMWARE VERSION 1.0.13.6

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P)
GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P)
GWN7830, GWN7831, GWN7832

DATE

10/21/2024

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
MD5 checksum: 3076343d9809e252a19f937ccfe5cf31
- GWN7806(P) Firmware file name: gwn7806fw.bin
MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7816(P) Firmware file name: gwn7816fw.bin
MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465
- GWN7830 Firmware file name: gwn7830fw.bin
MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7831 Firmware file name: gwn7831fw.bin
MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7832 Firmware file name: gwn7832fw.bin
MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465

CHANGES/ENHANCEMENT

- Added support for GWN7821P and GWN7822P model.
- Added support for BGP & Route Policy on L3 Switch.
- Added support for MVR(CLI).
- Added LED status change during the start-up process
- Removed PTP settings from Web UI.
- Optimized IPv6 OSPFv3 CLI command.
- Optimized GWN780x CPU usage.
- Fixed from GWN Cloud login the Web UI fails when HTTPS login authentication method is TACACS+.
- Fixed issue that unable to import configuration files from older versions.
- Fixed issue that user can still add a method successfully when the AAA name already exists.
- Fixed the IP Address will be set to 0.0.0.0 when enable Querier via GWN Cloud.

- Fixed Profile import fails after changing the profile name.

NEW FEATURE OVERVIEW

- **BGP**

Only L3 switches are supported.

BGP is a border gateway protocol that is used to transfer routing information between different AS. It provides following function:

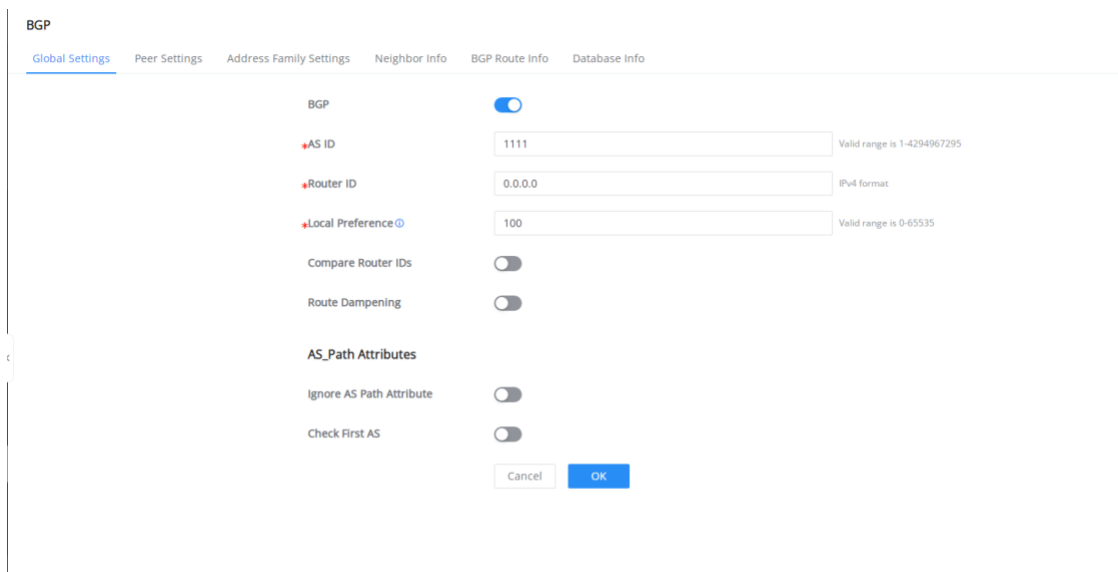
Path selection: Determine the best route by comparing the path attributes of different destinations.

Routing Policies: Select specific segments by defining routing policies.

Aggregation: By aggregating multiple route declarations, the number of routing information is reduced, the routing table is simplified, and the processing load is reduced.

Loop avoidance: Path vectors are used to prevent routing loops. Each BGP router knows the best path to each destination and uses this information to avoid loops.

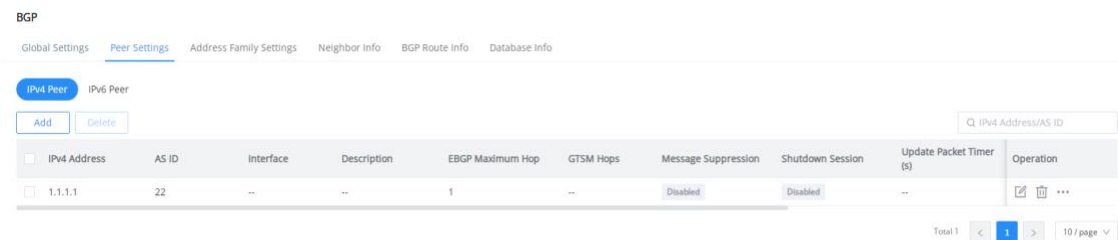
Security maintenance: MD5 authentication is used to protect routing information from unauthorized access or tampering.



The screenshot shows the 'BGP Global Settings' configuration page. The 'BGP' toggle is turned on. The configuration fields are as follows:

- AS ID:** 1111 (Valid range is 1-4294967295)
- Router ID:** 0.0.0.0 (IPv4 format)
- Local Preference:** 100 (Valid range is 0-65535)
- Compare Router IDs:** Disabled
- Route Dampening:** Disabled
- AS_Path Attributes:**
 - Ignore AS Path Attribute: Disabled
 - Check First AS: Disabled

Buttons for 'Cancel' and 'OK' are visible at the bottom.



The screenshot shows the 'BGP Peer Settings' table with the following data:

IPv4 Peer	IPv6 Peer	AS ID	Interface	Description	EBGP Maximum Hop	GTSM Hops	Message Suppression	Shutdown Session	Update Packet Timer (s)	Operation
<input type="checkbox"/>	<input type="checkbox"/>	22	--	--	1	--	Disabled	Disabled	--	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Page navigation: Total 1, 1 / 10 page

[IPv4 Peer](#) > [Edit IPv4 Peer](#)

IPv4 Address	<input type="text" value="1.1.1.1"/>	
AS ID	<input type="text" value="22"/>	
Interface	<input type="text"/>	
Description	<input type="text"/>	0-64 characters, including numbers, letters and special characters except "\/?:, and spaces
TTL Related	<input checked="" type="radio"/> EBGp Maximum Hop <input type="radio"/> GtSM Hops	
EBGP Maximum Hop	<input type="text" value="1"/>	Valid range is 1-255
Message Suppression	<input type="checkbox"/>	
Shutdown Session	<input type="checkbox"/>	
Update Packet Timer (s)	<input type="text"/>	Valid range is 0-600. 0 indicates disabled.
MDS	<input type="checkbox"/>	
Timer Settings		
Keepalive Interval (s)	<input type="text" value="60"/>	Valid range is 1-21845
Hold Interval (s)	<input type="text" value="180"/>	Valid range is 3-65535
Connect Retry Interval (s)	<input type="text" value="120"/>	Valid range is 1-65535
	<input type="button" value="Cancel"/>	<input type="button" value="OK"/>

BGP
[Global Settings](#) [Peer Settings](#) [Address Family Settings](#) [Neighbor Info](#) [BGP Route Info](#) [Database Info](#)
[IPv4 Unicast Routing](#) [IPv6 Unicast Routing](#)
[Route Aggregation](#) [Import Route](#)

Peer Address	Enable	Advertise All Paths	Advertise Best Path Per AS	Receive the Same AS Path as Itself	Advertise Default Path	Set Nexthop as Local Address	Delete AS	Operation
1.1.1.1	Enabled	Disabled	Disabled	Off	Disabled	Disabled	Off	

 Total 1
BGP
[Global Settings](#) [Peer Settings](#) [Address Family Settings](#) [Neighbor Info](#) [BGP Route Info](#) [Database Info](#)
[IPv4 Neighbor info](#) [IPv6 Neighbor Info](#)

Neighbor IP	BGP Version	AS ID	Received Messages	Sent Messages	Messages to be sent	Received Prefix	Current Status Duration	Status	Operation
1.1.1.1	4	22	0	0	0	0	never	Active	

 Total 1

BGP

Global Settings Peer Settings Address Family Settings Neighbor Info BGP Route Info Database Info

IPv4 BGP Route Info IPv6 BGP Route Info

Refresh

No BGP prefixes displayed, 0 exist

BGP

Global Settings Peer Settings Address Family Settings Neighbor Info BGP Route Info Database Info

Type

Query

Database Info

```

Half-life time: 15 min
Reuse penalty: 750
Suppress penalty: 2000
Max suppress time: 60 min
Max suppress penalty: 12000
  
```

- **Routing policy**

Only supported by L3 switches and effective only when used with BGP, other dynamic routing protocols are currently not supported.

Route policies control route advertisement and reception, as well as manage route import and attribute settings by altering route attributes.

The steps for implementing a route policy are: (1) First, define the characteristics of the route

information to which the policy will be applied, i.e., define a set of matching rules. Various matching rules can be flexibly defined using filters; (2) Then, apply the matching rules to the route policy for processes such as route advertisement, reception, and import.

Supported route policy filters include Access Lists and prefix lists.

Route Policy

Based on IPv4 Access List Based on IPv6 Access List Based on IPv4 Prefix List Based on IPv6 Prefix List

[Add](#) [Delete](#)

<input type="checkbox"/>	Name	Match Pattern	IPv4 Address / Mask Length	Operation
<input type="checkbox"/>	test	Allow	192.168.10.0/24	✎ ✖

Total 1 [<](#) [1](#) [>](#) 10 / page ▾

Route Policy

Based on IPv4 Access List Based on IPv6 Access List **Based on IPv4 Prefix List** Based on IPv6 Prefix List

[Add](#) [Delete](#)

<input type="checkbox"/>	Name	Rule Number	Operation
<input type="checkbox"/>	see	2	✖

Total 1 [<](#) [1](#) [>](#) 10 / page ▾

Based on IPv4 Prefix List > [see Rule Details](#)

[Add Rule](#) [Delete](#)

<input type="checkbox"/>	Rule ID	Match Pattern	Address Prefix	Operation
<input type="checkbox"/>	1	Allow	192.168.122.0/24	✎ ✖
<input type="checkbox"/>	2	Allow	192.168.124.0/24	✎ ✖

Total 2 [<](#) [1](#) [>](#) 10 / page ▾

- **MVR [CLI only]**

The multicast VLAN registration function is used to optimize the transmission efficiency of multicast streams across different VLANs, reducing unnecessary traffic duplication and flooding, and effectively improving network performance.

```
GWN7813(config)# mvr
<cr>
group      MVR group address configuration
mode       MVR mode configuration
query-time MVR Query Response Time
vlan       MVR VLAN ID configuration
```